

LISTING OF CLAIMS

- 1 1. (previously presented) A composite part having an integrated flow channel,
2 comprising:
3 an elongated foam core;
4 at least one fabric layer secured to said elongated foam core and extending
5 along a first elongated side thereof, said fabric layer enclosing an elongated channel
6 between said first elongated side of said foam core and said fabric layer; and
7 a flow channel media disposed in said elongated channel, said flow channel
8 media having substantially less resistance to a flow of resin as compared to said fabric
9 layer;
10 whereby resin introduced within said elongated channel under pressure will
11 substantially flow along a length of said elongated side.
- 1 2. (original) The composite part according to claim 1 wherein said fabric layer further
2 encloses at least a second and third elongated side of said foam core, each of said
3 second and third elongated sides adjoining said first elongated side.
- 1 3. (previously presented) The composite part according to claim 2, further comprising
2 fabric tab portions extending from said second and third elongated sides.
- 1 4. (original) The composite part according to claim 1 further comprising a second flow
2 channel media attached to said elongated foam core and extending along a second
3 elongated side thereof, said flow channel media defining interstices for the passage of
4 resin.
- 1 5. (original) The composite part according to claim 4 wherein said fabric layer
2 encloses said second elongated side of said foam core, including said flow channel
3 media, to define a second resin flow path along said second elongated side.

1 6. (original) The composite part according to claim 5 wherein said second elongated
2 side is opposed from said first elongated side.

1 7. (original) The composite part according to claim 1 wherein said flow channel media
2 is bounded by a second fabric layer interposed between said foam core and said flow
3 channel media.

1 8. (previously presented) The composite part according to claim 7, wherein said
2 second fabric layer is a substantially closed fabric for preventing a passage through said
3 second fabric of said foam core into said flow channel media.

1 9. (amended) The composite part according to claim 1 wherein said flow channel
2 ~~medium~~ media is a three-dimensional plastic matrix.

1 10. (original) The composite part according to claim 9 ~~where~~ wherein said flow channel
2 ~~medium~~ media is between about 50 to 90% open space.

1 11. - 18. (Canceled)

1 19. (amended) The composite part according to claim 1, wherein said fabric layer
2 has a porosity that selectively permits a predetermined amount of resin to escape from
3 said ~~flow~~ elongated channel along said elongated length.

1 20. (previously presented) The composite part according to claim 1, wherein said
2 elongated channel is disposed exclusively along said first elongated side.

1 21. (previously presented) The composite part according to claim 1, wherein said flow
2 channel media is disposed exclusively along said first elongated side.

1 22. (previously presented) A composite part having an integrated flow channel,
2 comprising:

3 an elongated foam core;
4 a flow channel media attached to said elongated foam core and extending along
5 a first elongated side thereof, said flow channel media defining interstices for the
6 passage of resin;
7 at least one fabric layer secured to said elongated foam core, and enclosing said
8 first elongated side of said foam core, including said flow channel media, to define a
9 resin flow path along said first elongated side; and
10 wherein said flow channel media is bounded by a second fabric layer interposed
11 between said foam core and said flow channel media.

1 23. (previously presented) A composite part having an integrated flow channel,
2 comprising:
3 an elongated foam core;
4 at least one fabric layer secured to said elongated foam core and extending
5 along a first elongated side thereof, said fabric layer at least partially enclosing an
6 elongated channel between said first elongated side of said foam core and said fabric
7 layer;
8 a flow channel media disposed in said elongated channel, said flow channel
9 media having less resistance to a flow of resin as compared to said fabric layer, and
10 wherein said flow channel media is bounded by a second fabric layer interposed
11 between said foam core and said flow channel media.

1 24. (previously presented) The composite part according to claim 23, wherein said flow
2 channel media has less resistance to a flow of resin as compared to said second fabric
3 layer.

1 25. (amended) The composite part according to claim 23, wherein said flow
2 channel ~~medium~~ media is a three-dimensional plastic matrix of fibers joined at the
3 intersections thereof.

- 1 26. (amended) The composite part according to claim 23, wherein said flow
2 channel ~~medium-comprised~~ comprises between about 50% to 90% open space.
- 1 27. (previously presented) The composite part according to claim 23, wherein said
2 fabric layer has a porosity that selectively permits a predetermined amount of resin to
3 escape from said flow elongated channel along said elongated length.